

Glass designation :	<b>G 50</b>	Code	<b>8020</b>
Color :	Gray		
Filter category :	Light		
Application :	100 % UV absorbing glass suited for general or special purpose Tinted glass. Pass cited standards for traffic signal recognition at 1.9 mm thickness		

### PHYSICAL PROPERTIES

Density :	2.48	g/cm <sup>3</sup>
Linear Exp. Coef. :	67.4	10 <sup>-7</sup> / °C
Viscosity :	Soft. Pt	645 °C
	Ann. Pt	492 °C
	Strain Pt	455 °C

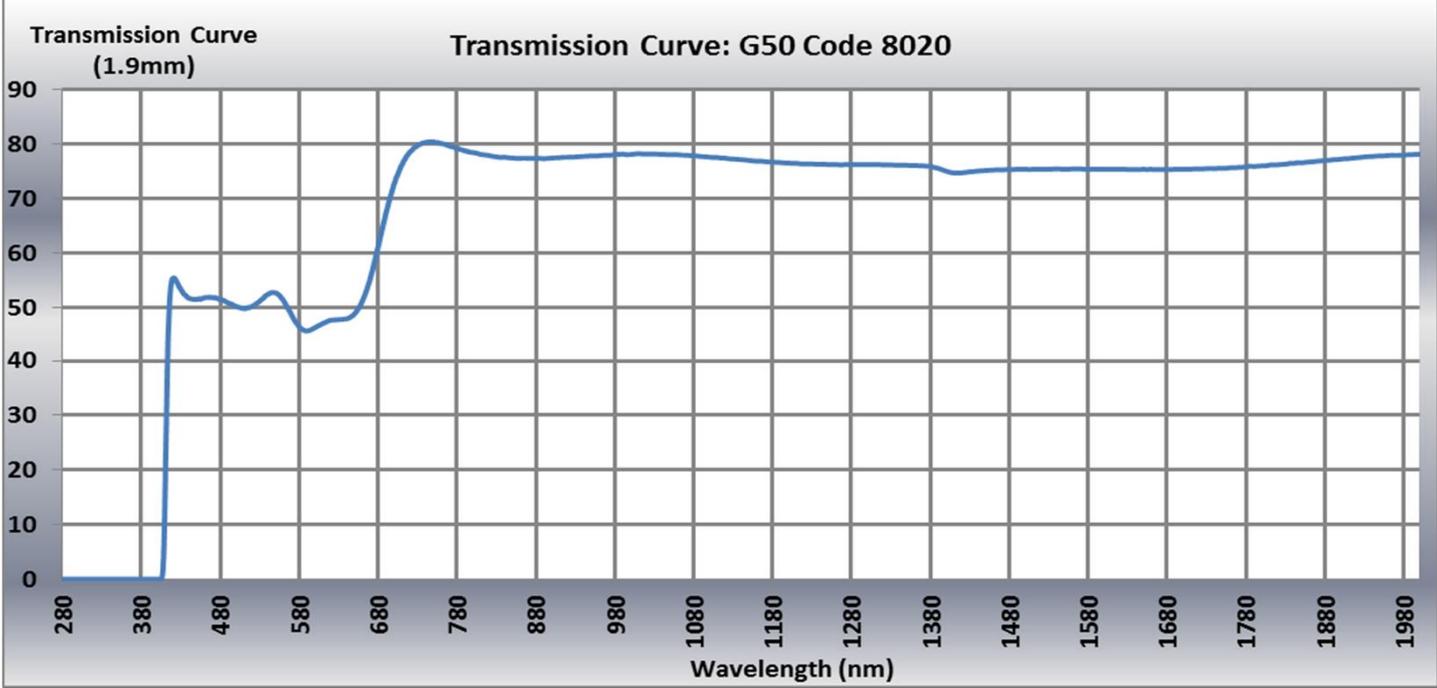
### REFRACTIVE INDEX

Line		λ (nm)	Value
F'	Cadmium	480.0	1.52974
F	Hydrogen	486.1	1.52926
e	Mercury	546.1	1.52532
d	Helium	587.6	1.52328
C'	Cadmium	643.8	1.52102
C	Hydrogen	656.3	1.52061
Abbe Number		ve	60.24
		vd	60.49

### TRANSMISSION PROPERTIES (1,9 mm)

<b>VISIBLE</b>		<b>380 - 780 nm</b>
Luminous transmission factor		49.6%
Transmission category		
EN 1836		1
<b>ULTRAVIOLET</b>		
UV - B tλ(max) 280 - 315 nm		< 0.10
t(avg) 280 - 315 nm		< 0.10
Solar UV-B transmission factor		< 0.10
UV - A tλ(max) 315 - 350 nm		< 0.10
t(moy) 315 - 380 nm		< 0.10
Solar UV-A transmission factor		< 0.10
<b>BLUE LIGHT 380 - 500 nm</b>		
Blue light transmission factor		50%
<b>TRAFFIC SIGNAL RECOGNITION</b>		
ISO 14889		<i>Pass</i>
ANSI Z80-3		<i>Pass</i>
AS 1067.1		<i>Pass</i>

<u>COATING &amp; TEMPERING</u>	
(See also notes below)	
Vacuum coating	YES
Chemical tempering	YES
Air tempering	NO



Non-toleranced numerical values are typical values

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**Chemtempering :**

Recommended bath and cycle (no preheating nor postcooling) :

<b>Bath :</b>	Potassium Nitrate	<b>99.5 %</b>	(Sodium nitrate 0,5% max)	Time :	<b>16 Hr</b>
	Silicic Acid	<b>0.5 %</b>		$\theta$ °C :	<b>410 °C</b>

**Air tempering :**

This glass shall not be air tempered

**Coatings :**

Vacuum coatings for antireflexion or mirror are possible.

**Compatible Bariums :**

This glass can not be used to manufacture fused multifocal lenses.  
There is no compatible bariums to be fused with this glass

**Properties according to ISO 14889**

**ISO 14889 Chapter 4.3.1**

***Physiological compatibility***

The above glass products are not known to be physiologically incompatible, nor known to create a significant number of allergic reactions, when the lenses made out of these materials are used as intended by the manufacturer

**ISO 14889 Chapter 4.3.2**

***Flammability***

The above glass products are not flammable, and when tested as described in chapter 5.1 of ISO 14889, there is no continued combustion after withdrawal of the test rod.